3.0   REQUIREMENTS

The primary purpose of this requirement is to assist in the program management, acquisition support and documentation, technical, information technology, engineering and technical support needs of the WIN-T Programs. The following tasks shall be performed:

3.1   STUDIES AND ANALYSIS

The Contractor shall perform network system engineering analysis; Communications Flow, including Data/Voice/Video/Telephony analysis; Traffic Analysis; Security (IA) Policy; and Network Management information as provided by the PEO C3T community.

3.2   TECHNOLOGY INSERTIONS/SYSTEM INTEGRATION SUPPORT

The Contractor shall:

- Perform Integration/interoperability of Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems into existing vehicles
- Support PM WIN-T at design Integrated Product Teams (IPTs)
- Integrate system with hardware and /communications platforms
- Integrate communication components into existing systems and platforms.
- Prepare system integration information to aid in New Equipment Training program
- Evaluate new technologies and perform systems engineering work to determine integration effort, viability and capability gain
- Perform life cycle integration that involves customers in the design process and ensures the system developed is viable throughout its life

3.3   ENGINEERING AND TECHNICAL DOCUMENTATION SUPPORT

The Contractor shall:

- Assist in development of systems architecture and other system engineering documentation
- Assist in configuration design, support of field tests to validate Network configurations and support of functional interoperability testing at Central Technical Support Facility (CTSF), and support of exercises
- Document current and new procedures for PM WIN-T programs identified in paragraph 1.2 above
- Assist in reviewing production and fielding support proposals
- Participate in program reviews
- Conduct system engineering trade-off analysis
- Assist in preparation of technical requirements/specifications
- Assist in development of Statements of Objectives, Statements of Work (SOW), Performance Work Statements, Performance Specifications and associated solicitation documentation

- Assist in the review and development of Engineering Change Proposals (ECP)/Engineering change orders and the analysis of technical /cost/production cut-in tradeoff issues and fielding requirements (installation kits)
- Provide support for meetings, working groups and briefings to include development and maintenance of action item tracking system for Technical Reviews, Command Reviews, Quarterly Reviews, Technical Test and Initial Operational Test and Evaluation (IOT&E) recommendations.
- Provide technical support for conferences, review task related documents, and assist in developing task related technical papers.
- Provide technical and operational support in the development of operational requirements documents to support the Army.

3.4   SOFTWARE/HARDWARE ENGINEERING

The contractor shall:

- Provide support to PM WIN-T hardware and software systems identified in paragraph 1.2 above
- Evaluate software and hardware versions and updates in terms of capability and network impact
- Assist in reviewing any design changes and transition of equipment that may be required as a result of changes to system configuration requirements
- Provide software blocking support to PM WIN-T systems, including answering data calls and aligning schedules.

3.5   PREPARATION OF INDEPENDENT ASSESSMENTS

The contractor shall:

- Provide independent evaluation of the performance of PM WIN-T systems identified in paragraph 1.2 above
- Assist in the technical analysis of program goals and objectives, requirements analysis, organizational performance assessment, special studies and assist in preparing reports providing conclusions/recommendations
- Provide assessments of various technical approaches from a cost/schedule/risk perspective
- Provide support in the development of both preliminary and detailed design of systems, to include performing risk identification, analysis, mitigation and traceability

3.6   SYSTEM ENGINEERING SUPPORT

The contractor shall:

- Provide support for fielded systems
- Provide technical support in all PM WIN-T equipment labs
- Assist in developing equipment and network configurations and products

- Support technology insertion testing relative to emerging Current/Future Force Networks requirements and capabilities.
- Provide systems engineering expertise related to the hardware, software, integration and capabilities of the PM WIN-T systems
- Assist in developing solutions to systems engineering challenges based on technology insertion and new product integration
- Provide support related to reliability, maintainability, operational availability and human factors engineering for PM WIN-T products
- Provide engineering design services to include mechanical, electrical, safety, logistic and manufacturing support, system engineering and testing
- Conduct system evaluations and lessons learned analyses of telecommunications/automation end items/systems
- Conduct architectural studies/analyses to determine security, integration and interoperability requirements of present and future interrelating telecommunications/automation systems
- Provide assessments and recommendations for specific technical, scientific or engineering approaches related to system engineering support to engineering development, to production, to non-developmental items (NDI)
- Conduct performance/feasibility analysis of a specific concept or technique to include the application of techniques and the modeling of established design and performance characteristics
- Provide system engineering support to include automated techniques for the design or modification of existing equipments and systems
- Conduct system evaluations and lessons learned analyses of telecommunications/automation end items/systems, applying automated techniques where applicable. These system evaluations include operating the WIN-T Program equipment that is installed on Army aircraft.
- Prepare for and participate in hardware/software design reviews.

3.7 TEST AND EVALUATION

The contractor shall:

- Planning/participating in testing and events involving PM WIN-T systems
- Assist in confidence testing, problem troubleshooting, field testing and lab testing
- Support various test events including Aberdeen Proving Ground (APG), CTSF (Ft Hood), Electronic Proving Ground (EPG), Lakehurst, Fort Dix, and other locations as assigned
- Assist PM WIN-T with testing requirements to include reviewing test plans and procedures for PM WIN-T systems
- Assist in developing test plans to meet requirements for the Materiel Release process
- Provide assistance to PM WIN-T regarding impacts of testing on system fielding schedules, coordination of available resources required to perform testing and management of data in support of the development of test reports
- Assist in the development and implementation of test plans, procedures and documentation to support various stages of testing for all initial and updated increments/releases and components of PM WIN-T systems.

- Act as liaison to the Army test community for all necessary coordination
- Assist in the Materiel Release processes
- Provide support to PM WIN-T during test events, independent verification and validation, simulation and modeling, system safety, quality assurance and training
- Assist in the planning and execution of coordinated test programs and assist in the preparation of Test and Evaluation Master Plans (TEMPs)
- Support all PM WIN-T operational tests
- Provide engineering support to PM WIN-T test bed to include acquisition of PM WIN-T lab equipment to support the integration of data/voice/video/telephony in the Current/Future Force Networks. Only material directly in support of this task order shall be acquired.

3.8   INFORMATION ASSURANCE (IA) SUPPORT

The contractor shall:

- Provide IA architecture support
- Provide IA support to certification and accreditation processes
- Provide IA support to security scans and other IA test events.

3.9   ARCHITECTURAL/INTEROPERABILITY SUPPORT

The contractor shall:

- Analyze functional, informational, organizational and infrastructure needs within the PM to assist in developing new system configurations or modifying existing hardware and software configurations
- Maintain a thorough working knowledge of PM WIN-T hardware and software systems as they relate to large-scale battlefield communications at all echelons
- Provide technical support to ensure interoperability of all systems and products, down to the box level.
- Provide analytical support to requirements assessments studies, such as Capabilities Based Assessments (CBAs) for PM WIN-T areas of responsibilities. Assist in the preparation and editing of Joint Capabilities Integration and Development System documents (Initial Capabilities Document (ICD); Capabilities Development Document (CDD) and Capabilities Product Document (CPD)), as well as provide support for the Army and Joint staffing and approval processes.

3.10   QUALITY ENGINEERING

The contractor shall:

Provide technical support related to reliability, maintainability, operational availability and human factors engineering for PM WIN-T products. Assist with analysis of Quality Deficiency reports and monitor quality performance of product manufacturers.

3.11   PROGRAM ANALYSIS SUPPORT

The contractor shall:

- The contractor shall provide recommendations to PM WIN-T for developing and/or maintaining the acquisition management documentation required by Department of Defense Instruction (DODI) 5000.02, Defense Acquisition Guidebook (DAG), and Army Regulation (AR) 70-1 and AR 700-142. The contractor shall review all documentation for continuity, compliance, and accuracy; and make recommendations for corrections and improvements.
- The contractor shall provide support to PM WIN-T to include program analysis support, provide assistance for budget and finance, plans and programs, and prepare coordinated inputs for Milestone Decision Reviews (MDRs). The contractor shall provide program management support for acquisition cycle planning and execution. The contractor shall provide acquisition support by coordinating acquisition documents and requirements. The contractor's program management support shall not include any acquisition planning or decision function that would be considered to be an Inherently Governmental Function.
- The contractor shall coordinate with budget, engineering, procurement, Program Management and contractor personnel to gather information, discuss plans/progress and resolve problems.
- The contractor shall provide advice and recommendations based upon a comprehensive knowledge of the principles, policies, pertinent laws, regulatory requirements and procedures applicable to each program; and the knowledge and understanding of the operations of command elements to coordinate control and serve as staff advisor on these programs.
- The contractor shall track trends such as funding decrements, system deployment, new areas of program emphasis, and changes in user's priorities and provide advice in these areas.
- The contractor shall analyze and formulate program requirements in support of all PM WIN-T programs.
- The contractor shall review and analyze program progress and fund utilization reports to identify areas wherein the programs are not progressing or proceeding as planned, (e.g. areas of slippages and overruns).
- The contractor shall participate in program scheduling and planning that involves formulating both broad and specific guidelines for planning program elements and sub-elements, prepare recommendations for program objectives, operating schedules, resource requirements, and overall program plans, and establish format and reporting requirements.
- The contractor shall research and evaluate management techniques used in the realignment of any formal structure, including the development of unique, flexible tools to provide management with the optimal utilization of resources.

3.12   OFFICE SYSTEM AUTOMATION/INTEGRATION SUPPORT

PM WIN-T has a requirement for support in the development and implementation of office automation systems and the integration of manual and automated processes. This support includes the development or upgrade of various database management systems and operational information systems, and the providing of data entry and data administration support to update and maintain the integrity of various databases. Further, the requirement includes support in the re-engineering of the office work processes and the development of integrated operational level imaging, web page management and data transfer/manipulation.

Types of Services include:

- Functional Owner of Applications
- Application Development
- WEB Site Development
- Interface between Business and IT for requirements definition and determination
- Hand Receipt reporting
- Maintain personnel changes in the Global Address List
- Information Assurance Security
- Set-up and support Video Teleconferencing
- Coordinate with NEC on PM WIN-T's ADP requirements
- Coordinate and conduct IT training sessions for users
- Move equipment between users

The contractor shall provide support to all PM WIN-T personnel in the following areas:

- Assistance in ADP Inventory Management and Control
- Development of www home page both public and secure
- Evaluation of Internet tools and software applications
- Provide site access through the Internet for field/off-site personnel
- Creative Science support as required
- Microsoft Outlook training and other mail databases
- Perform on-site application training to all PM WIN-T personnel
- Provide database application programming and development support

3.13 SECURITY ASSISTANCE MANAGEMENT (SAM)/FOREIGN MILITARY SALES (FMS)

The contractor shall provide (on-site, Buildings as designated) the personnel and other resources necessary to assist the government with the development, integration and management of the assigned SAM/FMS program. The contractor shall review, analyze, recommend improvements and develop materials related to SAM programs to include acquisition requirements, FMS case programmatic and management documentation.

The contractor shall develop, document and maintain SAM program management and acquisition data products. Such efforts shall include:

- FMS Case agreements
- Acquisition requirements packages
- Funding transfer and funding data
- Cost information
- Program transactions
- Other data and documentation as assigned

The contractor shall generate briefing graphics, word process reports, develop spreadsheet data depictions and otherwise plan and manage, in an automated fashion, the SAM and FMS Program.

The contractor shall provide mathematical, economical and operational analysis of issues related to SAM program initiatives.

The contractor shall review, analyze, recommend improvements and develop materials related to SAM program of both the US Government and supporting commodity contractors, with regard to completeness, accuracy, consistency, coordination and effectiveness.

The contractor shall ensure continuity among all FMS program efforts and shall review and coordinate FMS case information among all cognizant US Government organizations as assigned.

3.14   COST ANALYSIS SUPPORT

The contractor shall perform cost estimating activities for various program life cycle phases in accordance with all applicable regulations, directives and policies. These efforts will include cost documents such as Program Office Estimates (POEs), Life Cycle Cost Estimates (LCCEs) and Independent Government Cost Estimates (IGCEs), to assist decision makers during the materiel acquisition process.

The contractor shall prepare and/or update various cost studies, as well as inputs to other documents, in support of the materiel acquisition process. The contractor shall prepare independent cost studies and inputs to documents such as Analysis of Alternatives (AOA), Cost Analysis Requirements Description (CARD), Defense Acquisition Executive Summary (DAES), Selected Acquisition Reports (SARs), Integrated Program Summaries (IPS), P-Forms, R-Forms, Smart Charts, Acquisition Strategy Report (ASR) and Acquisition Plans (AP) in support of the materiel acquisition process.

The contractor shall develop, update and/or modify various cost models and tools; cost data bases; or cost estimating relationships to support program requirements.

The contractor shall support the Government in Cost/Schedule Control System Criteria (C/SCSC) and/or Cost/Schedule Status Report (C/SSR) reviews with the analysis of contractor cost and schedule performance data. These analyses will include assessments of contract, cost, and schedule status. When required, the contractor shall develop a forecast of cost at completion in support of program status requirements.

3.15   LOGISTICS FOR IT SYSTEMS

Information Technology (IT) systems and equipment rely on logistics planning and Integrated Logistics Support functions throughout their life cycle. The Contractor shall provide personnel to perform tasks in the following ILS functional areas: Manpower and Personnel, Training, Maintenance Support, Supply Support and Provisioning, General Purpose and specific Test

Equipment, Technical Data, Computer Resources Support and Packaging, Handling, Storage, and Transportation (PHS&T). ILS tasks start during the design process and continues through development, production, fielding, operation, sustainment and disposal of the system. Additionally, the Contractor shall provide programmatic support with regards to logistics planning, analysis, documentation, monitoring, evaluation and implementation of logistics requirements derived from program requirements documents. The Contractor shall perform Total Package Fielding of new systems and equipment as assigned. The contractor shall provide personnel qualified in the logistics disciplines within each of the ILS functional areas required from time to time during the contract. The contractor shall perform logistics tasking in support of PM WIN-T IT systems and equipment at the locations identified in this PWS, as assigned. The contractor is authorized to operate and maintain any and all equipment approved by the PM necessary to accomplish this ILS programmatic support.

3.16   ANTICIPATED LEVEL OF EFFORT

The Government anticipates the following total level of effort to complete the Government's requirements:

Base Year: 232,800 hours
First Option Period: 256,080 hours
Second Option Period: 281,688 hours